PATENT COOPERATION TREAT

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

23 MAY 2005

Applicant's or agent's file reference 20970WO				FOR FURTHER A	ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)						
International application No.				1	International filing date (day/month/year)			Priority date (day/month/year)			
PCT/NL 03/00842 28.11.2003			28.11.2003			29	9.11.2	2002			
	F2/4		ent Classification (IPC) or b	oth national classification	and IPC						
Appli DSN		ASSE	ETS B.V. et al								
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 											
2.	This	REP	ORT consists of a total of	of 5 sheets, including t	his cover	sheet.					
This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which hav been amended and are the basis for this report and/or sheets containing rectifications made before this Authori (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).						vhich have is Authority					
	The	se an	nexes consist of a total of	of sheets.		1	EPC) - D	G 1		
							1 0.	12.	2004		
3.	This report contains indications relating to the following it							(F)			
	1	\boxtimes	Basis of the opinion								
	H		Priority								
	111		Non-establishment of o	opinion with regard to r	ovelty, in	ventive step	and i	ndust	rial applica	bility	
IV ☐ Lack of unity of invention V ☒ Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step of citations and explanations supporting such statement											
				ep or indus	strial app	olicability;					
VI Certain documents cited											
	VII		Certain defects in the i	nternational application	า						
	VIII		Certain observations o	n the international app	lication						•
Date (of sub	missio	n of the demand		Date of	completion of	this re	port			
21.06.2004			02.11.2004								
		exami	address of the international		Authorized Officer					Septiment Palance	
	<u>)</u>	D-1 Tel	opean Patent Office - Gitso 1958 Berlin 1 +49 30 25901 - 0 1: +49 30 25901 - 840	thiner Str. 103 .	Stach,						
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International application No.

PCT/NL 03/00842

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I.	Bas	sis of the report					
1.	With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):						
	Description, Pages						
	1-6		as originally filed				
	Cla	ims, Numbers					
	1-9		as originally filed				
	Drawings, Sheets						
		wings, Sheets					
	1-2		as originally filed				
2.	With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.						
	These elements were available or furnished to this Authority in the following language: , which is:						
	the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).						
		the language of publ	lication of the international application (under Rule 48.3(b)).				
		the language of a tra Rule 55.2 and/or 55.	anslation furnished for the purposes of international preliminary examination (under 3).				
3.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:						
	Contained in the international application in written form.						
	☐ filed together with the international application in computer readable form.						
	☐ furnished subsequently to this Authority in written form.						
	furnished subsequently to this Authority in computer readable form.						
		The statement that the international a	he subsequently furnished written sequence listing does not go beyond the disclosure pplication as filed has been furnished.				
		The statement that the listing has been furnitude.	he information recorded in computer readable form is identical to the written sequence ished.				
4.	The	amendments have re	esulted in the cancellation of:	į			
		the description,	pages:				
		the claims,	Nos.:	•			
		the drawings,	sheets:				

Form PCT/IPEA/409 (January 2004)

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5. 🗆	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).
	(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes: Claims

1-9

No: Claims

Inventive step (IS)

Yes: Claims

No: Claims

1-9

No: Claims

1-9

No: Claims

2. Citations and explanations

see separate sheet

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following document/s/:

D1: EP-A-0 346 129 (UNIV NEW JERSEY MED ;UNIV RUTGERS (US); JOHNSON & JOHNSON ORTHOPAE) 13 December 1989 (1989-12-13)

 The document D1 is regarded as being the closest prior art to the subject-matter of claim 1, and discloses (the references in parentheses applying to this document) (see figure 1 and claim 1):

An artificial intervertebral disc, comprising a nucleus (2) of flexible material with the shape of a flattened body, with a lower and an upper side connected by a lateral surface, around which partial windings of traction-resistant fibres have been applied.

The subject-matter of claim 1 differs from this known disc in that the fibres around the nucleus are applied in at least substantially (mainly) radially oriented windings.

The subject-matter of claim 1 is therefore new (Article 33(2) PCT).

The problem to be solved by the present invention may be regarded as to permit some shape variations of the nucleus in the longitudinal direction of the vertebral column, but not or only hardly in the direction perpendicular thereto.

The solution to this problem proposed in claim 1 of the present application is considered as involving an inventive step (Article 33(3) PCT) for the following reasons:

The solution is not obvious and none of the documents cited in the search report hints to such a solution.

2. Claims 2-9 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.

Form PCT/Separate Sheet/409 (Sheet 1) (EPO-April 1997)

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INTERNATIONAL PRELIMINARY International application No. PCT/NL 03/00842 EXAMINATION REPORT - SEPARATE SHEET

Upon entry of the regional phase the following should be noted:

- The features of the claims should be provided with reference signs placed in parenthesis.
- Prior art documents known to the applicant should identified in the description and relevant background art disclosed therein should be briefly discussed.
- Claim 1 should be drafted in the two-part form.

Form PCT/Separate Sheet/409 (Sheet 2) (EPO-April 1997)